Rev. 3/82

Field No. 4

☐ TC ☐ TM ☐ Nut ☐ Pest. ☐ Rad.
☐ PC ☑ PM ☐ BOD ☐ Bact. ☐ Spec.

Date Recd.: _____

Received By: _____

UTAH STATE DEPARTMENT OF HEALTH

ENVIRONMENTAL HEALTH

WATER ANALYSES

Sample No. 701

Storet No. 702

Water Syst. No. 703 Source No. 704

Date Collected 714: 83 05 24 (yr. mo. dy.)

Time Collected 610: 1348 (24-hour clock)

Water Rights No. 707

Exact Description of sampling Point 646:
MID-PT BETWEEN UPPER
& LOWER SAMPLE PTS. @3
FT. FROM BK. (COLO. RIVER)

Supply Owned by 712: R BARNES (PLACER)

Sample Type 710

Sample Collected by 713: DW HEDBERG POOR BOY #2

SEND REPORT TO: Phone 533 5771

715: OIL, GAS & MINING 4241
648: STATE OFFICE BUILDING
717: SLC, UTAH 84114 (zip code)

Sample Source 719: 03
01 Spring, 02 Well, 03 Stream, 04 Lake, 06 Dist. syst., 07 Effluent, 08 Storm sewer, 14 Other, 15 Tunnel, 18 Artesian well, 19 Swimming pool

County 611: 10
01 Beaver, 02 Box Elder, 03 Cache, 04 Carbon, 05 Daggett, 06 Davis, 07 Duchesne, 08 Emery, 09 Garfield, 10 Grand, 11 Iron, 12 Juab, 13 Kane, 14 Millard, 15 Morgan, 16 Piute, 17 Rich, 18 Salt Lake, 19 San Juan, 20 Sanpete, 21 Sevier, 22 Summit, 23 Tooele, 24 Uintah, 25 Utah, 26 Wasatch, 27 Washington, 28 Wayne, 29 Weber

Current use 708: 3
Proposed use 709:
1. Culinary
2. Agriculture
3. Industrial
4. Other

Cost Code 770: B 900

1 FIELD TESTS

Temperature (°C)	792	CO_2, mg/l	572
D.O., mg/l	793	Depth, m	609
Sp. Cond. µ mhos	653	Cl Resid., mg/l	753
pH	651	Flow, MGD	652
Sp. Gravity	608	Flow, GPM	604
Transparency, m	649	Flow, cfs	659

2 WASTEWATER ANALYSIS

Temperature (°C) 650 | pH 782 | BACT. LAB. No.

	mg/l		mg/l		
B.O.D.$_5$	794	T.O.C.	671	M.P.N. Total Coliforms/100ml	658
Tot. Sus. Solids	787	C.O.D.	777	M.P.N. Fecal Coliforms/100ml	657
NO_2+NO_3,N	602	Cyanide	775	Fecal Strep C/100ml.	656
T.K.N.	778	Phenolics	783	M.F. Total Coliforms/100ml.	654
Oil & Grease	780	Sulfide	672	M.F. Fecal Coliforms/100ml.	655
				Plate Count-Org./ml.	599

3 Filtered ☐ Unfiltered ☒

me/l	CATIONS	mg/l	ug/l (ppb)	
	Ammonia as N			722
	Arsenic			723
	Barium			724
	Boron			725
	Cadmium			727
	Calcium			728
	Chromium			729
	Chromium, Hex. as Cr			730
	Copper			732
	Iron, dissolved			733
	Lead			734
	Magnesium			737
	Manganese			738
	Nickel			740
	Potassium			742
	Selenium			743
	Silver			744
	Sodium			745
	Zinc			749
	TOTAL CATIONS			

Sp. Cond. µmhos/cm.	762	
TDS @ 180°C	786	

4 CHEMICAL ANALYSIS

pH, units

me/l	ANIONS	mg/l	
	Bicarbonate		758
	Carbon Dioxide		759
	Carbonate		760
	Chloride		763
	CO_3 Solids		
	Fluoride		765
	Hydroxide		767
	Nitrate as N		605
	Nitrite as N		606
	Phosphorus, Ortho as P		607
	Silica, dissolved as SiO_2		750
	Sulfate		772
	TOTAL ANIONS		
	GRAND TOTAL		
	Tot. Phosphorus		785
	Total Alk. as $CaCO_3$		752
	T. Hdns. as $CaCO_3$		754
	Surfactant as MBAS		773
	Turbidity, as NTU		757
	Sp. Gravity		608

TOTAL METALS ANALYSIS

5

CATIONS	mg/l	ug/l (ppb)	
Aluminum			800
Arsenic		4	660
Barium			661
Beryllium			801
Cadmium		1	662
Chromium			663
Cobalt			804
Copper		20	664
Gold			700
Iron			755
Lead		19	665
Manganese			666
Mercury		<1	739
Molybdenum			802
Nickel			667
Selenium		<5	668
Silver			669
Uranium,			601
Vanadium			803
Zinc		80	670

6 RADIOLOGICS

	pc/l-g		pc/l-g	
Alpha, gross		621	^{89}Sr	633
Beta, gross		623	^{131}I	635
Tritium, ^3H		625	^{134}Cs	637
^{226}Radium		627	^{137}Cs	639
^{228}Radium		629		
^{90}Sr		631		

Analyses Approved By: RSL Date: 830608

INTERPRETATION OF ANALYSES:

Remarks:

Based on State Standards, this sample was:

	Satisfactory	Conditional	Unsatisfactory
B.O.D.$_5$			
Tot. Sus. Solids			
M.P.N. Total Coliform.			
M.P.N. Fecal Coliform.			

By _____

ENVIRONMENTAL HEALTH

INSTRUCTIONS FOR COLLECTING WASTEWATER SAMPLES

1. Select point where sample will be representative and where foreign material will not be brushed into supply while sample is taken.
2. Remove cap from bottle carefully.
3. Collect sample by submerging the bottle and pushing forward with a slow, even motion so that the sample will be collected in a single stroke. If the bottle is more than 2/3 full, the excess should be removed before replacing the cap. This can best be done by flipping the water from the bottle.
4. Replace cap.

NOTE: Bottles contain a liquid or white powder (sodium thiosulfate). Do Not Rinse.

DO NOT TOUCH inside of bottle cap or top of bottle neck.

FOR LABORATORY USE ONLY

Date Rec'd_____ Date Rept'd_____

RESULTS OF ANALYSIS

	volume	Presumptive		Confirmed (BGL B B)					Fecal at 44.5°C		
	ml.	24	48	24	48	24	48	T	24	24	T
☐	10.0	/5	/5	/	/	/	/	/5	/	/	/5
☐	1.0	/5	/5	/	/	/	/	/5	/	/	/5
☐	10-1	/5	/5	/	/	/	/	/5	/	/	/5
☐	10-2	/5	/5	/	/	/	/	/5	/	/	/5
☐	10-3	/5	/5	/	/	/	/	/5	/	/	/5
☐	10-4	/5	/5	/	/	/	/	/5	/	/	/5
☐	10-5	/5	/5	/	/	/	/	/5	/	/	/5
☐	10-6	/5	/5	/	/	/	/	/5	/	/	/5

M P N Coliforms per 100 ml. _____

M P N Fecal Coliforms per 100 ml. _____

Rev. 3/82

Field No. 5

TC / PC / TM / PM / Nut / BOD / Pest. / Rad. / Bact. / Spec.

Date Recd.: _____

Received By: _____

UTAH STATE DEPARTMENT OF HEALTH

ENVIRONMENTAL HEALTH

WATER ANALYSES

Sample No. 1-25-83 1690 (701)

Storet No. (702)

Water Syst. No. (703) Source No. (704)

Date Collected: 83 05 24 (714) (yr. mo. dy.)

Time Collected: 1350 (610) 24-hour clock

Water Rights No. (707)

Exact Description of sampling Point: BELOW ERODED DISCHARGE CHANNEL LEADING FROM PONDS TO RIVER (@ 20 YDS BELOW) SPLIT (646)

Supply Owned by: R. BARNES (PLACER) (712)

Sample Type (710)

Sample Collected by: DW HEDBERG (713)

SEND REPORT TO: Phone 533 5771

OIL, GAS & MINING 4241 (715)

STATE OFFICE BUILDING (648)

SLC, UTAH 84114 (717) zip code

Sample Source (719): 03

01 Spring, 02 Well, 03 Stream, 04 Lake, 06 Dist. syst., 07 Effluent, 08 Storm sewer, 14 Other, 15 Tunnel, 18 Artesian well, 19 Swimming pool

County (611): 10

01 Beaver, 02 Box Elder, 03 Cache, 04 Carbon, 05 Daggett, 06 Davis, 07 Duchesne, 08 Emery, 09 Garfield, 10 Grand, 11 Iron, 12 Juab, 13 Kane, 14 Millard, 15 Morgan, 16 Piute, 17 Rich, 18 Salt Lake, 19 San Juan, 20 Sanpete, 21 Sevier, 22 Summit, 23 Tooele, 24 Uintah, 25 Utah, 26 Wasatch, 27 Washington, 28 Wayne, 29 Weber

Current use (708): 3

Proposed use (709):

1. Culinary
2. Agriculture
3. Industrial
4. Other

Cost Code (770): 900 B

1 FIELD TESTS

Temperature (°C)	792	CO_2, mg/l	572
D.O., mg/l	793	Depth, m	609
Sp. Cond. µ mhos	653	Cl Resid., mg/l	753
pH	651	Flow, MGD	652
Sp. Gravity	608	Flow, GPM	604
Transparency, m	649	Flow, cfs	659

2 WASTEWATER ANALYSIS

Temperature (°C) 650 | pH 782 | BACT. LAB. No.

	mg/l		mg/l		
B.O.D.$_5$	794	T.O.C.	671	M.P.N. Total Coliforms/100ml	658
Tot. Sus. Solids	787	C.O.D.	777	M.P.N. Fecal Coliforms/100ml	657
NO_2+NO_3,N	602	Cyanide	775	Fecal Strep C/100ml.	656
T.K.N.	778	Phenolics	783	M.F. Total Coliforms/100ml.	654
Oil & Grease	780	Sulfide	672	M.F. Fecal Coliforms/100ml.	655
				Plate Count-Org./ml.	599

3 Filtered / X Unfiltered

me/l	CATIONS	mg/l	ug/l (ppb)
	Ammonia as N	722	
	Arsenic		723
	Barium		724
	Boron		725
	Cadmium		727
	Calcium	728	
	Chromium		729
	Chromium, Hex. as Cr		730
	Copper		732
	Iron, dissolved		733
	Lead		734
	Magnesium	737	
	Manganese		738
	Nickel		740
	Potassium	742	
	Selenium		743
	Silver		744
	Sodium	745	
	Zinc		749
	TOTAL CATIONS		

Sp. Cond. µmhos/cm.	762	
TDS @ 180°C	786	

4 CHEMICAL ANALYSIS

pH, units

me/l	ANIONS	mg/l
	Bicarbonate	758
	Carbon Dioxide	759
	Carbonate	760
	Chloride	763
	CO_3 Solids	
	Fluoride	765
	Hydroxide	767
	Nitrate as N	605
	Nitrite as N	606
	Phosphorus, Ortho as P	607
	Silica, dissolved as SiO_2	750
	Sulfate	772
	TOTAL ANIONS	
	GRAND TOTAL	
	Tot. Phosphorus	785
	Total Alk. as $CaCO_3$	752
	T. Hdns. as $CaCO_3$	754
	Surfactant as MBAS	773
	Turbidity, as NTU	757
	Sp. Gravity	608

TOTAL METALS ANALYSIS

5	CATIONS	mg/l	ug/l (ppb)
	Aluminum		800
X	Arsenic		660 4
	Barium		661
	Beryllium		801
X	Cadmium		662 1
	Chromium		663
	Cobalt		804
X	Copper		664 20
	Gold		700
	Iron		755
X	Lead		665 18
	Manganese		666
X	Mercury		739 1
	Molybdenum		802
	Nickel		667
X	Selenium		668 <5
	Silver		669
	Uranium,		601
	Vanadium		803
X	Zinc		670 55

6 RADIOLOGICS

	pc/l-g		pc/l-g
Alpha, gross	621	^{89}Sr	633
Beta, gross	623	^{131}I	635
Tritium, ^3H	625	^{134}Cs	637
^{226}Radium	627	^{137}Cs	639
^{228}Radium	629		
^{90}Sr	631		

Analyses Approved By: RE Date: 830608

INTERPRETATION OF ANALYSES:

Remarks:

Based on State Standards, this sample was:

	Satisfactory	Conditional	Unsatisfactory
B.O.D.$_5$			
Tot. Sus. Solids			
M.P.N. Total Coliform.			
M.P.N. Fecal Coliform.			

By _____

ENVIRONMENTAL HEALTH

INSTRUCTIONS FOR COLLECTING WASTEWATER SAMPLES

1. Select point where sample will be representative and where foreign material will not be brushed into supply while sample is taken.
2. Remove cap from bottle carefully.
3. Collect sample by submerging the bottle and pushing forward with a slow, even motion so that the sample will be collected in a single stroke. If the bottle is more than 2/3 full, the excess should be removed before replacing the cap. This can best be done by flipping the water from the bottle.
4. Replace cap.

NOTE: Bottles contain a liquid or white powder (sodium thiosulfate). Do Not Rinse.

DO NOT TOUCH inside of bottle cap or top of bottle neck.

RECEIVED
JUN 10 1983
DIVISION OF
OIL, GAS & MINING

FOR LABORATORY USE ONLY

Date Rec'd _____ Date Rept'd _____

RESULTS OF ANALYSIS

	volume	Presumptive		Confirmed (BGL B B)					Fecal at 44.5°C		
	ml.	24	48	24	48	24	48	T	24	24	T
☐	10.0	/5	/5	/	/	/	/	/5	/	/	/5
☐	1.0	/5	/5	/	/	/	/	/5	/	/	/5
☐	10-1	/5	/5	/	/	/	/	/5	/	/	/5
☐	10-2	/5	/5	/	/	/	/	/5	/	/	/5
☐	10-3	/5	/5	/	/	/	/	/5	/	/	/5
☐	10-4	/5	/5	/	/	/	/	/5	/	/	/5
☐	10-5	/5	/5	/	/	/	/	/5	/	/	/5
☐	10-6	/5	/5	/	/	/	/	/5	/	/	/5

M P N Coliforms per 100 ml. _____

M P N Fecal Coliforms per 100 ml. _____

RUSH

Rev. 3/82

Field No. 3

TC | TM | Nut | Pest. | Rad. | Bact. | Spec.

PC | PM | BOD

Date Recd.: _____

Received By: _____

UTAH STATE DEPARTMENT OF HEALTH

ENVIRONMENTAL HEALTH

WATER ANALYSES

Sample No. 701

Storet No. 702

Water Syst. No. 703 Source No. 704

Date Collected 714: 83 05 24 (yr. mo. dy.)

Time Collected 610: 1345 (24-hour clock)

Water Rights No. 707

Exact Description of sampling Point 646:
5 FT. ABOVE INTAKE PT.
OF PUMP TO PONDS. @ 3
FT. FROM BANK (COL. RIVER)

Supply Owned by 712: R. BARNES (PLACER)

Sample Type 710

Sample Collected by 713: DW HEDBERG

POOR BOY #2

SEND REPORT TO: Phone 533 5771

715: OIL, GAS & MINING 4241
648: STATE OFFICE BUILDING
717: SLC, UTAH 84114

zip code

Sample Source 719: 03

01 Spring, 02 Well, 03 Stream, 04 Lake, 06 Dist. syst., 07 Effluent, 08 Storm sewer, 14 Other, 15 Tunnel, 18 Artesian well, 19 Swimming pool

County 611: 10

01 Beaver, 02 Box Elder, 03 Cache, 04 Carbon, 05 Daggett, 06 Davis, 07 Duchesne, 08 Emery, 09 Garfield, 10 Grand, 11 Iron, 12 Juab, 13 Kane, 14 Millard, 15 Morgan, 16 Piute, 17 Rich, 18 Salt Lake, 19 San Juan, 20 Sanpete, 21 Sevier, 22 Summit, 23 Tooele, 24 Uintah, 25 Utah, 26 Wasatch, 27 Washington, 28 Wayne, 29 Weber

Current use 708: 3

Proposed use 709:

1. Culinary
2. Agriculture
3. Industrial
4. Other

Cost Code 770: 700 B

1 FIELD TESTS

Temperature (°C)	792	CO_2, mg/l	572
D.O., mg/l	793	Depth, m	609
Sp. Cond. µ mhos	653	Cl Resid., mg/l	753
pH	651	Flow, MGD	652
Sp. Gravity	608	Flow, GPM	604
Transparency, m	649	Flow, cfs	659

2 WASTEWATER ANALYSIS

Temperature (°C) 650 | pH 782 | BACT. LAB. No.

	mg/l		mg/l		
B.O.D.$_5$	794	T.O.C.	671	M.P.N. Total Coliforms/100ml	658
Tot. Sus. Solids	787	C.O.D.	777	M.P.N. Fecal Coliforms/100ml	657
NO_2+NO_3,N	602	Cyanide	775	Fecal Strep C/100ml.	656
T.K.N.	778	Phenolics	783	M.F. Total Coliforms/100ml.	654
Oil & Grease	780	Sulfide	672	M.F. Fecal Coliforms/100ml.	655
				Plate Count-Org./ml.	599

3 Filtered / X Unfiltered

me/l	CATIONS	mg/l	ug/l (ppb)	
	Ammonia as N			722
	Arsenic			723
	Barium			724
	Boron			725
	Cadmium			727
	Calcium			728
	Chromium			729
	Chromium, Hex. as Cr			730
	Copper			732
	Iron, dissolved			733
	Lead			734
	Magnesium			737
	Manganese			738
	Nickel			740
	Potassium			742
	Selenium			743
	Silver			744
	Sodium			745
	Zinc			749
	TOTAL CATIONS			

Sp. Cond. µmhos/cm. 762

TDS @ 180°C 786

4 CHEMICAL ANALYSIS

pH, units

me/l	ANIONS	mg/l	
	Bicarbonate		758
	Carbon Dioxide		759
	Carbonate		760
	Chloride		763
	CO_3 Solids		
	Fluoride		765
	Hydroxide		767
	Nitrate as N		605
	Nitrite as N		606
	Phosphorus, Ortho as P		607
	Silica, dissolved as SiO_2		750
	Sulfate		772
	TOTAL ANIONS		
	GRAND TOTAL		
	Tot. Phosphorus		785
	Total Alk. as $CaCO_3$		752
	T. Hdns. as $CaCO_3$		754
	Surfactant as MBAS		773
	Turbidity, as NTU		757
	Sp. Gravity		608

TOTAL METALS ANALYSIS

5	CATIONS	mg/l	ug/l (ppb)	
	Aluminum			800
X	Arsenic		4	660
	Barium			661
	Beryllium			801
X	Cadmium		1	662
	Chromium			663
	Cobalt			804
X	Copper		15	664
	Gold			700
	Iron			755
X	Lead		16	665
	Manganese			666
X	Mercury		1	739
	Molybdenum			802
	Nickel			667
X	Selenium		<5	668
	Silver			669
	Uranium,			601
	Vanadium			803
X	Zinc		40	670

6 RADIOLOGICS

	pc/l-g		pc/l-g	
Alpha, gross		621	^{89}Sr	633
Beta, gross		623	^{131}I	635
Tritium, ^3H		625	^{134}Cs	637
^{226}Radium		627	^{137}Cs	639
^{228}Radium		629		
^{90}Sr		631		

Analyses Approved By: RSL

Date: 830608

INTERPRETATION OF ANALYSES:

Remarks:

Based on State Standards, this sample was:

	Satisfactory	Conditional	Unsatisfactory
B.O.D.$_5$			
Tot. Sus. Solids			
M.P.N. Total Coliform.			
M.P.N. Fecal Coliform.			

By _____

ENVIRONMENTAL HEALTH

INSTRUCTIONS FOR COLLECTING WASTEWATER SAMPLES

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FOR LABORATORY USE ONLY

Date Rec'd _____ Date Rept'd _____

RESULTS OF ANALYSIS

	volume	Presumptive		Confirmed (BGL B B)					Fecal at 44.5°C		
	ml.	24	48	24	48	24	48	T	24	24	T
☐	10.0	/5	/5	/	/	/	/	/5	/	/	/5
☐	1.0	/5	/5	/	/	/	/	/5	/	/	/5
☐	10-1	/5	/5	/	/	/	/	/5	/	/	/5
☐	10-2	/5	/5	/	/	/	/	/5	/	/	/5
☐	10-3	/5	/5	/	/	/	/	/5	/	/	/5
☐	10-4	/5	/5	/	/	/	/	/5	/	/	/5
☐	10-5	/5	/5	/	/	/	/	/5	/	/	/5
☐	10-6	/5	/5	/	/	/	/	/5	/	/	/5

M P N Coliforms per 100 ml. _____

M P N Fecal Coliforms per 100 ml. _____

Rev. 3/82
Field No. 2

☐ TC ☐ TM ☐ Nut
☐ PC ☑ PM ☐ BOD

☐ Pest.
☐ Rad.
☐ Bact.
☐ Spec.

Date Recd.: _____
Received By: _____

UTAH STATE DEPARTMENT OF HEALTH
ENVIRONMENTAL HEALTH
WATER ANALYSES

Sample No. 25M831687 701

Storet No. _____ 702
Water Syst. No. _____ 703 Source No. _____ 704
Date Collected 83 05 24 714 (yr. mo. dy.)
Time Collected 1357 610 (24-hour clock)
Water Rights No. _____ 707
Exact Description of sampling Point: 2ND DISCHARGE POND ADJACENT TO SLUICE BOXES @2FT FROM SOUTH BANK 646
Supply Owned by: R.BARNES (PLACER) 712
Sample Type _____ 710
Sample Collected by: DW HEDBERG 713
SEND REPORT TO: Phone 533 5771
DIVISION OIL, GAS & MINING 648
4241 STATE OFFICE BUILDING 717
SLC, UTAH
zip code

Sample Source 07 719
01 Spring, 02 Well, 03 Stream, 04 Lake, 06 Dist. syst., 07 Effluent, 08 Storm sewer, 14 Other, 15 Tunnel, 18 Artesian well, 19 Swimming pool

County 10 611
01 Beaver, 02 Box Elder, 03 Cache, 04 Carbon, 05 Daggett, 06 Davis, 07 Duchesne, 08 Emery, 09 Garfield, 10 Grand, 11 Iron, 12 Juab, 13 Kane, 14 Millard, 15 Morgan, 16 Piute, 17 Rich, 18 Salt Lake, 19 San Juan, 20 Sanpete, 21 Sevier, 22 Summit, 23 Tooele, 24 Uintah, 25 Utah, 26 Wasatch, 27 Washington, 28 Wayne, 29 Weber

Current use 3 708
Proposed use 709
1. Culinary
2. Agriculture
3. Industrial
4. Other

Cost Code B 900 770

1 FIELD TESTS

Temperature (°C)	792	CO_2, mg/l	572
D.O., mg/l	793	Depth, m	609
Sp. Cond. µ mhos	653	Cl Resid., mg/l	753
pH	651	Flow, MGD	652
Sp. Gravity	608	Flow, GPM	604
Transparency, m	649	Flow, cfs	659

2 WASTEWATER ANALYSIS

Temperature (°C) 650 | pH 782 | BACT. LAB. No.

	mg/l		mg/l		
B.O.D.$_5$	794	T.O.C.	671	M.P.N. Total Coliforms/100ml	658
Tot. Sus. Solids	787	C.O.D.	777	M.P.N. Fecal Coliforms/100ml	657
NO_2+NO_3,N	602	Cyanide	775	Fecal Strep C/100ml.	656
T.K.N.	778	Phenolics	783	M.F. Total Coliforms/100ml.	654
Oil & Grease	780	Sulfide	672	M.F. Fecal Coliforms/100ml.	655
				Plate Count-Org./ml.	599

3 Filtered ☐ Unfiltered ☒

me/l	CATIONS	mg/l	ug/l (ppb)	
	Ammonia as N			722
	Arsenic			723
	Barium			724
	Boron			725
	Cadmium			727
	Calcium			728
	Chromium			729
	Chromium, Hex. as Cr			730
	Copper			732
	Iron, dissolved			733
	Lead			734
	Magnesium			737
	Manganese			738
	Nickel			740
	Potassium			742
	Selenium			743
	Silver			744
	Sodium			745
	Zinc			749
	TOTAL CATIONS			

Sp. Cond. µmhos/cm.	762
TDS @ 180°C	786

4 CHEMICAL ANALYSIS

pH, units

me/l	ANIONS	mg/l	
	Bicarbonate		758
	Carbon Dioxide		759
	Carbonate		760
	Chloride		763
	CO_3 Solids		
	Fluoride		765
	Hydroxide		767
	Nitrate as N		605
	Nitrite as N		606
	Phosphorus, Ortho as P		607
	Silica, dissolved as SiO_2		750
	Sulfate		772
	TOTAL ANIONS		
	GRAND TOTAL		
	Tot. Phosphorus		785
	Total Alk. as $CaCO_3$		752
	T. Hdns. as $CaCO_3$		754
	Surfactant as MBAS		773
	Turbidity, as NTU		757
	Sp. Gravity		608

TOTAL METALS ANALYSIS

5	CATIONS	mg/l	ug/l (ppb)	
	Aluminum			800
X	Arsenic		2	660
	Barium			661
	Beryllium			801
X	Cadmium	<	1	662
	Chromium			663
	Cobalt			804
X	Copper		15	664
	Gold			700
	Iron			755
X	Lead	<	5	665
	Manganese			666
X	Mercury		21	739
	Molybdenum			802
	Nickel			667
X	Selenium	<	5	668
	Silver			669
	Uranium,			601
	Vanadium			803
X	Zinc		10	670

6 RADIOLOGICS

	pc/l-g		pc/l-g	
Alpha, gross		621	^{89}Sr	633
Beta, gross		623	^{131}I	635
Tritium, ^3H		625	^{134}Cs	637
^{226}Radium		627	^{137}Cs	639
^{228}Radium		629		
^{90}Sr		631		

Analyses Approved By: RED Date: 830608

INTERPRETATION OF ANALYSES:
Remarks:

Based on State Standards, this sample was:

	Satisfactory	Conditional	Unsatisfactory
B.O.D.$_5$			
Tot. Sus. Solids			
M.P.N. Total Coliform.			
M.P.N. Fecal Coliform.			

By _____
ENVIRONMENTAL HEALTH

INSTRUCTIONS FOR COLLECTING WASTEWATER SAMPLES

1. Select point where sample will be representative and where foreign material will not be brushed into supply while sample is taken.
2. Remove cap from bottle carefully.
3. Collect sample by submerging the bottle and pushing forward with a slow, even motion so that the sample will be collected in a single stroke. If the bottle is more than 2/3 full, the excess should be removed before replacing the cap. This can best be done by flipping the water from the bottle.
4. Replace cap.

NOTE: Bottles contain a liquid or white powder (sodium thiosulfate). Do Not Rinse.

DO NOT TOUCH inside of bottle cap or top of bottle neck.

FOR LABORATORY USE ONLY

Date Rec'd _____ Date Rept'd _____

RESULTS OF ANALYSIS

	volume	Presumptive		Confirmed (BGL B B)					Fecal at 44.5°C		
	ml.	24	48	24	48	24	48	T	24	24	T
☐	10.0	5	5					5			5
☐	1.0	5	5					5			5
☐	10-1	5	5					5			5
☐	10-2	5	5					5			5
☐	10-3	5	5					5			5
☐	10-4	5	5					5			5
☐	10-5	5	5					5			5
☐	10-6	5	5					5			5

M P N Coliforms per 100 ml. _____

M P N Fecal Coliforms per 100 ml. _____

Rev. 3/82

Field No. 1

☐ TC ☐ TM ☐ Nut
☐ PC ☑ PM ☐ BOD

☐ Pest.
☐ Rad.
☐ Bact.
☐ Spec.

Date Recd.: _____

Received By: _____

UTAH STATE DEPARTMENT OF HEALTH

ENVIRONMENTAL HEALTH

WATER ANALYSES

Sample No. 701

Storet No. (702)

Water Syst. No. (703) Source No. (704)

Date Collected (714): 83 05 24 (yr. mo. dy.)

Time Collected (610): 1330 (24-hour clock)

Water Rights No. (707)

Exact Description of sampling Point (646): 1ST DISCHARGE POND ADJACENT TO SLUICE BOXES @2FT FROM SOUTH BANK

Supply Owned by (712): R. BARNES (PLACER)

Sample Type (710)

Sample Collected by (713): DW HEDBERG POOR BOY #2

SEND REPORT TO: Phone 533-5771

(715) OIL, GAS & MINING 4241
(648) STATE OFFICE BUILDING
(717) SLC, UTAH 84114 — zip code

Sample Source (719): 07
01 Spring, 02 Well, 03 Stream, 04 Lake, 06 Dist. syst., 07 Effluent, 08 Storm sewer, 14 Other, 15 Tunnel, 18 Artesian well, 19 Swimming pool

County (611): 10
01 Beaver, 02 Box Elder, 03 Cache, 04 Carbon, 05 Daggett, 06 Davis, 07 Duchesne, 08 Emery, 09 Garfield, 10 Grand, 11 Iron, 12 Juab, 13 Kane, 14 Millard, 15 Morgan, 16 Piute, 17 Rich, 18 Salt Lake, 19 San Juan, 20 Sanpete, 21 Sevier, 22 Summit, 23 Tooele, 24 Uintah, 25 Utah, 26 Wasatch, 27 Washington, 28 Wayne, 29 Weber

Current use (708): 3
Proposed use (709):
1. Culinary
2. Agriculture
3. Industrial
4. Other

Cost Code (770): 990 B

1 FIELD TESTS

Temperature (°C)	792	CO_2, mg/l	572
D.O., mg/l	793	Depth, m	609
Sp. Cond. µ mhos	653	Cl Resid., mg/l	753
pH	651	Flow, MGD	652
Sp. Gravity	608	Flow, GPM	604
Transparency, m	649	Flow, cfs	659

2 WASTEWATER ANALYSIS

Temperature (°C) 650 | pH 782 | BACT. LAB. No.

	mg/l		mg/l		
B.O.D.$_5$	794	T.O.C.	671	M.P.N. Total Coliforms/100ml	658
Tot. Sus. Solids	787	C.O.D.	777	M.P.N. Fecal Coliforms/100ml	657
NO_2+NO_3,N	602	Cyanide	775	Fecal Strep C/100ml.	656
T.K.N.	778	Phenolics	783	M.F. Total Coliforms/100ml.	654
Oil & Grease	780	Sulfide	672	M.F. Fecal Coliforms/100ml.	655
				Plate Count-Org./ml.	599

3 Filtered ☐ Unfiltered ☒

me/l	CATIONS	mg/l	ug/l (ppb)
	Ammonia as N	722	
	Arsenic		723
	Barium		724
	Boron		725
	Cadmium		727
	Calcium	728	
	Chromium		729
	Chromium, Hex. as Cr		730
	Copper		732
	Iron, dissolved		733
	Lead		734
	Magnesium	737	
	Manganese		738
	Nickel		740
	Potassium	742	
	Selenium		743
	Silver		744
	Sodium	745	
	Zinc		749
	TOTAL CATIONS		

Sp. Cond. µmhos/cm.	762	
TDS @ 180°C	786	

4 CHEMICAL ANALYSIS

pH, units

me/l	ANIONS	mg/l
	Bicarbonate	758
	Carbon Dioxide	759
	Carbonate	760
	Chloride	763
	CO_3 Solids	
	Fluoride	765
	Hydroxide	767
	Nitrate as N	605
	Nitrite as N	606
	Phosphorus, Ortho as P	607
	Silica, dissolved as SiO_2	750
	Sulfate	772
	TOTAL ANIONS	
	GRAND TOTAL	
	Tot. Phosphorus	785
	Total Alk. as $CaCO_3$	752
	T. Hdns. as $CaCO_3$	754
	Surfactant as MBAS	773
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TOTAL METALS ANALYSIS

5

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X	Cadmium		< 1 662
	Chromium		663
	Cobalt		804
X	Copper		15 664
	Gold		700
	Iron		755
X	Lead		< 5 665
	Manganese		666
X	Mercury		8 739
	Molybdenum		802
	Nickel		667
X	Selenium		< 5 668
	Silver		669
	Uranium,		601
	Vanadium		803
X	Zinc		< 5 670

6 RADIOLOGICS

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☐	10-4	5	5					5			5
☐	10-5	5	5					5			5
☐	10-6	5	5					5			5

M P N Coliforms per 100 ml. _____

M P N Fecal Coliforms per 100 ml. _____